ELSEVIER

Hydrometallurgy 41 (1996) 313–314

hydrometallurgy

Contents Volume 41, 1996

Research Papers

The recovery of rare earth oxides from a phosphoric acid by-product. Part 1: Leaching of rare earth values and recovery of a mixed rare earth oxide by solvent extraction
J.S. Preston, P.M. Cole, W.M. Craig and A.M. Feather 1

The recovery of rare earth oxides from a phosphoric acid by-product. Part 2: The preparation of high-purity cerium dioxide and recovery of a heavy rare earth oxide concentrate
J.S. Preston, P.M. Cole, A.C. du Preez, M.H. Fox and A.M. Fleming 21

Extraction and selective stripping of molybdenum(VI) and vanadium(IV) from sulfuric acid solution containing aluminum(III), cobalt(II), nickel(II) and iron(III) by LIX 63 in Exxsol D80
P. Zhang, K. Inoue, K. Yoshizuka and H. Tsuyama 45

Kinetics of iron(III) extraction with primary amine and TBP using a modified rotating diffusion cell
M.X. Meng, S. Yu and J. Chen 55

Solvent extraction of niobium(V) and tantalum(V) from fluorometallate acid solutions
V.G. Mayorov and A.I. Nikolaev 71

Refining of crude nickel sulphate obtained from copper electrolyte
T. Havlík, M. Škrobian, R. Kammel, J. Čurilla and D. Cmorejová 79

Separation of copper and zinc during their transfer from hydrochloric acid to sulphuric acid medium using a mixed extractant
I. Mishonov and G. Kyuchoukov 89

Technical Note

Thiophosphinic acids as selective extractants for molybdenum recovery from a low grade ore and spent catalysts
A. Saily, U. Khurana, S.K. Yadav and S.N. Tandon 99

Research Papers

Thermodynamic stability of pentlandite and violarite and new E_H–pH diagrams for the iron–nickel sulphur aqueous system
T.E. Warner, N.M. Rice and N. Taylor 107

Review of uncertainty in the collection and interpretation of leaching data
A.P. Prosser 119

The influence of aluminium fluoride in hemi-dihydrate phosphoric acid processes
E.T.M.J. Martynowicz, L. Liao, G.-J. Witkamp and G.M. van Rosmalen 155

The effect of aluminium fluoride on the formation of calcium sulfate hydrates
E.T.M.J. Martynowicz, G.-J. Witkamp and G.M. van Rosmalen 171

Recovery of gallium from coal fly ash
Z. Fang and H.D. Gesser 187

Investigations on the extraction of molybdenum and rhenium values from low grade molybdenite concentrate
J.M. Juneja, S. Singh and D.K. Bose 201

Effect of silver on the ferrous iron oxidizing ability of *Thiobacillus ferrooxidans*
G.C. De, D.J. Oliver and B.M. Pesic 211

Effect of surface-active substances on the rate of production of copper powder from copper sulphate solutions by cementation on zinc rods in gas sparged reactors
M.A. Zarraa 231
Removal and fixation of arsenic in the form of ferric arsenates. Three parallel experimental studies
N. Papassiopi, E. Virčíková, V. Nenov, A. Kontopoulos and L. Molnár 243
Selective leaching of arsenic and antimony contained in the anode slimes from copper refining
M.A. Fernández, M. Segarra and F. Espiell 255
The behaviour of cadmium during jarosite precipitation
J.E. Dutrizac, D.J. Hardy and T.T. Chen 269
Studies on the separation of silver(I) microquantities from macroquantities of salts of other elements on selective ion-exchangers
Z. Hubicki and H. Hubicka 287
Liquid–liquid and solid–liquid extraction of gold by trioctylmethylammonium chloride (TOMACl) dissolved in toluene and impregnated on amberlite XAD-2 resin
I. Villaescusa, V. Salvadó and J. de Pablo 303